International Programme

List of English taught courses offered to the Erasmus+ programme and international exchange students

Logistics Technologies

Master degree level

Winter 2024

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Logistics Technologies

Course code	Course title	Number of ECTS credits
S_CED_1	Czech Language for Foreigners	6
S_GER_1	German language I	6
S_EIP	English in Practice	6
SA_N_RDS	Management of Supply Systems	6
SA_N_PRP	Project Preparation and Management	6
SA_N_VLG	Production Logistics	6
SA_N_LGS	Service Logistics	6
SA_N_DOL	Transport Logistics	6

Czech Language for Foreigners (Code: S_CED_1) | Number of credits: 6

Course objectives

The course is prepared for foreign students. The aim of the course is reaching of A1 level of their Czech language according to the descriptor of the Common European Framework of Reference for Languages. After the completion of the course, the students will gain the following language skills:

- the students understand basic phrases which are needed for everyday communication and can use these expressions and phrases

- can introduce themselves and other people and ask simple questions concerning well known: places, people and things and react to similar questions

- they can read simple texts (notices, signs, etc.)

- they can write a simple text in Czech language (holiday postcard, fill in a simple form, etc.)

- they are introduced with culture and everyday life in the Czech Republic

- they are able to perceive the intercultural differences between their native country and the Czech Republic

Topics

1. Who is who? Verbs: to be, to have. 2. How are you?

3. People, things, relations – nouns. 4. How much is it? Money.

5. Where am I? 6. The Czech Republic, Budweis.

7. At school, at the school canteen -prepositions, conjunctions.

8. Time, days, months. 9. My family.

10. Signs. 11. Food and drink.

12. Travel. 13. Services, shopping.

German language I (Code: S_GER_1) | Number of credits: 6

Course objectives

The aim of the course is to provide the students with the basic competencies necessary for normal communication in the language studied. The course aims to gradually achieve the specified output level A1 according to the Common European Framework of Reference in the range of specified thematic areas (lessons 1 - 4). After completing the course, the student has knowledge at the A1 level and masters the basic grammatical structures and vocabulary necessary for communication in a foreign language. At the end of the course, the student masters the principles of pronunciation of the German language and has knowledge of German language at the A1 level according to SERR for languages: masters the basic vocabulary necessary for understanding in basic communication, knows the basic grammatical structures necessary to compose a simple sentence, masters basic phrases and phrases - greetings, introductions, basic information.

Topics

1. Principles of German pronunciation
2. Introduction
3. Everyday life
4. Asking for information. Questions
5. In a town
6. At a party
7. Transport, means of transport
8. Prepositions I, Prepositions II

9. Imperative

10. In a hotel

11. Travelling

12. Family, social life

English in Practice (Code: S_EIP) | Number of credits: 6

Course Objectives

The objective of the course is to deepen students´ knowledge, enrich vocabulary and practise using English in real-life situations concerning work and study in a foreign country, the ability to give a presentation in English, improve listening, reading, speaking and writing skills. After successful completion of the course, the students are able to understand lectures, debates and participate in discussions on general topics/topics of their interest. Students understand TV and radio news, programmes and newspaper/online articles on topical issues and are able to present their views and discuss. Upon successful completion of the course, students are able to prepare and give presentation on a selected topic, communicate effectively and appropriately in real life situation, to use English effectively for study purpose across the curriculum, to develop and integrate the use of the four language skills (Reading, Listening, Speaking and Writing) and to be able to use them in any situation concerning travelling, work and study in a foreign country.

Topics

1. Providing and obtaining personal information in social situations (work, study, travelling, participation in social events); small talk. Present simple vs present continuous

2. Housing. Living in a country or in a town. Big towns in the Czech Republic. Prepositions – time, place, movement.

3. Travelling; means of transport, problems you may encounter while travelling, accommodation. Infrastructure in the Czech Republic in comparison with the student´s native country. Verbs and adjectives with prepositions.

4. System of Education (in the Czech Republic vs the student´s native country – primary, secondary, tertiary education. Grading. Comparisons.

5. Social life, culture, literature (student´s life, cultural events). Idioms.

6. Nature and environment. Environmental protection. Modals – obligation, probability. Modals in the past.

7. Health and illnesses. Human body and illnesses, health system and insurance in the Czech Republic. At the doctor´s.
8. Holidays and celebrations (the CR vs student´s native country). Shopping. Past simple, past continuous. 9. Food. Traditional meals. Eating habits, trends, healthy food. Restaurants. First conditional.

10. Jobs and occupation. Labour market in the Czech Republic. Work conditions. Second conditional.

Management of Supply Systems (Code: SA_N_RDS) | Number of credits: 6

Course objectives

The aim of the course is to acquaint students with the issues of technology and supply chain management (SCM - Supply Chain Management). The graduate demonstrates knowledge of supply systems, logistics and supply systems, can describe enterprise information systems, basic strategies in supply chains with emphasis on current developments in logistics, can plan in supply chain conditions and work with the time factor in supply system management. The graduate is also able to apply the knowledge of constraint theory in the field of supply chain management.

Topics

1. Integrated material and information flows of supply chains - system structures and elements. 2. Value-forming chains, characteristics, system functions, process concepts. 3. Supply chains in the organizational structure of the company, processes, functions of business units. 4. Structures of acquisition, production and distribution logistics. 5. Process management in supplier systems. 6. Supply chain analysis, model tools, simulation systems. 7. Supply chain planning, implementation of the principles of theory in supply systems. 8. Informatics and communication in supplier processes. 9. Storage systems and storage in the supply chain. Design, dimensioning, organization and management of warehouses. 10. Transport in the supply chain. 11. Handling of goods in the supply chain, characteristics, selection criteria and dimensioning of handling equipment and systems. 12. Reliability of supply chain systems in operation. 13. Introduction to inventory management 14. Inventory management in the logistics chain (disconnection point, push, pull system) 15. Deterministic models of inventory theory (EOQ model) 16. Selected stochastic models of inventory theory (P, Q systems) 17. Bases of the theory of constraints in logistics, basic principles of the theory of constraints. 18. Logistic technologies supporting the application of the theory of constraints (JIT, Kanban, 5S, Kaizen, lean production) 19. Identification of bottlenecks according to the principles of the theory of constraints 20. Distribution according to the theory of constraints, problems of distribution solutions, conflicts of the distribution environment, evaluation criteria. 21. Genesis of logistics development and trends of future development. 22. Strategies in international distribution channels. 23. Export and import management, adaptation to new trends, identification of global players. 24. International logistics in the context of a systems approach. 25. Measures of logistics efficiency in a global concept. 26. Possibilities of optimization of global logistics systems.

Project Preparation and Management (Code: SA_N_PRP) | Number of credits: 6

Course objectives

The goal of the course is for students to acquire theoretical knowledge and broad and comprehensive expertise in project preparation and management. As part of the exercise, students will process and present case studies in the selected software. The student will gain theoretical knowledge and broad and comprehensive expertise in project preparation and management. Students can present case studies in softwares.

Topics

1) Introduction – (history and meaning of project management, basic terms and principles of project management)
2) Principles of project management and the design process
3) Phase of the project life cycle - pre-project activities
4) Phase of the project life cycle - investment and implementation phase of the project
5) Phase of the project life cycle - operational phase of the project, termination of the project
6) Means and tools of project management
7) Methods to support project management
8) Project controlling
9) Project financing. Costs and prices in projects
10) Financial and economic analysis of the project, management of project finances
11) Project risks and their management, project changes
12) Human resources management
13) Commitment relationships, contract management and project management models.

Production Logistics (Code: SA_N_VLG) | Number of credits: 6

Course objectives

Learning outcomes of the course unit The aim of the course is to acquaint students with managerial knowledge needed to solve problems related to the implementation of logistics approaches to production. The graduate of the course is able to implement business logistics management with application of system and process approach in planning, management and control of integrated material, information and financial flows in production processes with respect to mutual links in the value chain links. The graduate of the course is able to implement business logistics management with application of system and process approach in planning, management and control of integrated material, information and financial flows in production processes with respect to mutual links in the value chain links.

Topics

1. Production logistics in the corporate structure and market environment.

2. Classification of products, processes and material flows.

3. Production planning and management.

4. Spatial structure of production systems and analysis of material flows.

5. Continuous production time. 6. Production batches.

7. The connection between the purpose and structure of the product and its production.

8. Information and communication systems of production logistics.

9. Transport, handling and storage technology of production systems.

10. Quality management in terms of product life cycle.

11. Work safety in production systems and processes.

12. Logistic Controlling of production processes. 13. Development trends in production logistics.

Service Logistics (Code: SA_N_LGS) | Number of credits: 6

Course Objectives

The aim of the course is to acquaint students with the issues of logistics of services in individual fields of the business. The graduate can describe and explain various forms of offered services as significant elements in the competitiveness of the enterprise and the national economy. The graduated also knows the meaning of the terms logistics object, freight villages and intermodal terminal. The graduate is capable to evaluate the quality of provided services and effectiveness of logistics services, and is able to describe and explain the different forms of offered services as important elements in the competitiveness of the national economy and enterprise. He also knows the principles of complaints handling in accordance with valid legal standards. It can judge and decide to provide customer service. The graduate is able to assess the financial aspect of the services provided, orientates himself in the field of insurance services in the context of logistics and is able to evaluate the quality and efficiency of the provided logistics services.

Topics

1. The conception of services, specifics, characteristic, classification of services and logistics processes.

2. Services in the internal market. Services of general interest.

3. Postal and telecommunication services.

4. Educational, cultural, health and social services.

5. Logistics services and logistics services providers.

6. Transport, freight forwarding services and reverse logistics.

7. Storage and material handling.

8. Packing and packages, assembly services, completion and special logistics services.

9. Financial and insurance services in context of logistics.

10. Logistics objects.

11. Intermodal terminals.

12. Quality of provided services. Methods of assessment of services quality.

13. Effectiveness of logistics services.

Transport Logistics (Code: SA_N_DOL) | Number of credits: 6

Course objectives

The aim of the course is to acquaint students with problems of transport logistics and its relationship to marketing, to apprise them with the different modes of transport, a combination of different modes of transport and other transport options. After successful completion of the course, students can describe basic concepts and approaches used in logistics, describe problems associated with transport costs, performance measure in the transportation, international aspects of transport, the main activities in the field of transportation for shippers and carriers, classify traffic management and identify key technologies and the importance of information.

Topics

1. Introduction to transport logistics
2. Legislation in transport, European Transport policy, Transport policy in Czech Republic
3. Characteristics of carriers and transport services
4. Transport infrastructure in the Czech Republic
5. Transport infrastructure in Europe
6. The provider of transportation services
7. Intermodal transport systems
8. Management of Transport, decision-making of the mode of transport
9. Road transsport technologies
10. Railway transport technologies
11. Air transport and water transport technologies
12. Logistics centers and their connection to transport systems
13. Transport Logistics and Environment